565 In the Sudan they are often referred to by the name of Daga,
192 a word of Sonrhaï origin, as is the word Bourdame which designates the Imochar.

565 Owners of a great many goats, the Ahaggar Imrad are limited
233 to short moves, but they are not sedentary. They actually have a
423 great many centers of cultivation, but they do not cultivate them-
241 selves; for this purpose they use Negroes from the Tidikelt -- the
●563 Harratin /Haratin/ who act as tenant farmers and cultivators.

563 Assimilated vassals. -- Tribes bearing the names Issekkemâren and Irréguénaten /Irreganaten/ are generally assimilated with the Imrad. These tribes, although also vassals of the Imochar, are appreciably different from the Imrad from the social point of view.

The Issekkemâren and the Irréguénaten are not people of their race in the eyes of the Tuareg. Linked to them by some remote [602] bonds of kinship, they are considered mixtures, exactly as their name indicates. They are the product of mixed marriages, [582] generally of Tuareg women with Arabs or Berbers. The term Irréguénaten has even been extended to groups springing from Imochar women or Imrad men. They exist in several confederations; there are Irréguénaten among the Ihăggaren as well as among the river Tuareg, Issekkemâren among the Ihăggaren and in the Timbuktu region.

563 Socially they occupy a higher rank than the Imrad; they are
631 free, and their vassalage to the Imochar is much more liberal. They have placed themselves under their protection because they were [643 too weak to insure their own defense. For this reason, they pay an 651] annual indemnity called rharama to the aménokal. They administer their own affairs just as the Imrad do, and they have the same mores [184] as the Tuareg. On the surface they cannot be distinguished from them. They also speak Tamashek, although they are less rigorous [567 keepers of the old traditions, it is true. They own slaves, but they 461] do not show as great a repugnance for work as the Imochar and the Imrad. There are never unions between them and the Imochar, [582] and they are quite rare with the Imrad.

563 [174] [701] [793] There are also important tribes in the Sudan who bear the name of Daoussak. They are generally considered /168/ Imrad, but actually the Daoussak were probably former Ioullimmiden shepherds who were not authorized to carry the lance and take part in combats. They tend to give themselves a certain marabout air, and they multiply the Koranic schools in their camps.

Iborelliten. -- We can rank among assimilated vassals still other free tribes, quite little known until now, who bear the name of Iborelliten (singular, Aborelli).

They speak the Tamashek language and on the surface are in no way different from the Tuareg in the midst of whom they live. In some confederations they form very distinct tribes, depending in general only on the direct authority of the chief of the confederation; such tribes are those of the Aïr who are under the command of the anastafidet of the Kel-Oui. (1)

1. The Kel-Aïr are divided into Kel-Geres and Kel-Oui, placed under the authority of the Sultan of Agadez. The Kel-Oui, probably of Oraren /Ouraren?, see below p. 37./ origin, have mixed enormously with the sedentary Hausa. Because of that they have diminished in the eyes of their racial brothers, who now consider them Negroes. They have a peculiar organization, and their chief bears the name of anastafidet.

They are more or less colored depending on the group, and some are as white as the Tuareg. They intermarry among themselves

563 and may be owners of slaves and herds. They sometimes seek
[582] matrimonial alliances with the Imrad, but the latter, who hold them in rather great contempt, most often refuse.

According to Nicolas, the Iborelliten might be captives of a
114 higher origin. (2) For de Foucauld, (3) Aborelli (plural, Ibourelliten)
563
[192]

2. Loc. cit., pp. 579-586.

3. Dictionnaire touareg-français /Tuareg-French Dictionary/, vol. I, p. 79.

designates a mulatto of a white man and a Negress, or inversely. In our opinion, it should be added that one of the parents is of Taureg origin; and we are all the more convinced that this trait is
[192] indispensable since de Foucauld elsewhere refers to the ordinary mulatto by the name of Achardan (plural, Ichardanen). (3)

3. Dictionnaire touareg-français /Tuareg-French Dictionary/, vol. I, p. 79.

We have gathered information in the regions of Tahoua and Gao, where éborelli refers to a child born of an Amajer and a non-captive Negress, or of a foreign woman. The Iborelliten are therefore mulattos born of mixed parentage, Tuareg and Negro.

563 As groups of Iborelliten we shall cite the Igdâlen of /169/ the Aïr and the Aboghelitè spoken of by Barth, (1) who were born of

1. Op. cit., vol. I, p. 204.

Tuareg mothers (Imochar, according to Barth) and Negro fathers. Another Iborelliten tribe, of Tuareg and Peul stock, said to have

563

become sedentary, exists in the Sudan, in the Niafunké region.

563 There seems to be a category of low-class Iborelliten who are referred to as Irraouellan. Nicolas considers them former captives 567 who have been liberated. Chudeau reported an Irraouellan tribe, [727] whose members were said to be freedmen or descendants of former captives. He adds that the children of a Tuareg man and a slave are by law Irraouellan.

We shall add to these different definitions that in the Aïr a slave woman who marries a Tuareg becomes free as does her family, and the children born of her marriage are then called Ikalalen.

[184] Among the Kel-Ahaggar, we do not find any true Iborelliten or Irraouellan tribes, although there are men belonging to these social classes.

567 The Iklan. -- The Iklan (singular, Akli; feminine singular, Taklit) are the serfs, or slaves, of the Tuareg. The name Iklan [192 144] comes from the Tamashek root Kl, meaning "black being"; (2)

2. Nicolas, op. cit., pp. 579-586.

and indeed these people are foreign to the Tuareg race. They are Negroes of all origins, formerly captured in the Sudan and reduced to slavery by the Tuareg. They form a separate class, which is not a tribe, except when they are freed conditionally or completely. Then they are called Iklan-n-égef or Iderfan, depending on which is the case.

[144] They have founded a family among the Tuareg and given birth to a new race with the most diverse characteristics, from which the white element is not excluded.

[181] Slaves are employed in keeping the flocks, and in the household work of the camp; they share the life of their masters and from their contact with them have acquired an independent nature which makes them love the freedom of nomadism, so much so that it would now be difficult for them to resume the sedentary life of their Ancestors.

567 have been freed as a group as a reward for some outstanding action. Nicolas mentions the present Tamjert fraction in the center of Tahoua who were freed after the battle of Izerwan where they had courageously resisted the Kel Ahaggar (1898). Many Iderfan go back to cultivation. They often live with the sedentary groups, with whom they join forces. They do small services for the latter, such as tending their flocks.

114 Nicolas likens them to the Harratines of the Kel Ăhaggar. This
● 563 is only partially justified, for, although it is true that a few former
567 slaves work in the centers of cultivation of the Ahaggar, the majority of the Harratin are Negroes from the Tidikelt who freely came to get jobs among the Tuareg. Thus, we must not confuse the Harratin with the Iderfan.

567 As in the case of the Iklan-n-Egef, there are no Iderfan in the Ahaggar except in isolated cases.

564 The Enaden. -- The Enaden (singular, Enad) form the artisan class of the Tuareg. In the Sudan they are called /174/ garassa or gargassa, which is very probably of Sonrhaï origin.

[192] The word Enadan probably comes from enad, meaning "the other," extended to mean "those we don't talk about." (1) This is

1. Nicolas, op. cit., pp. 579-586.

because the Enaden form a closed caste, scorned and cursed by the Tuareg whose repulsion for manual labor is well known.

463 Their role is to manufacture anything the Tuareg may have need
564 of: weapons, wooden table utensils, tent pegs, mehari saddles, and harnessing articles.

In addition, they also willingly engage in the business of barber-
[757 surgeon, and with the little instruments they make they adroitly do
752] bloodletting, cupping, scarification, and other little operations of the same order, including tooth extraction. They are remunerated
[465] for their work when they work for tribes, or, if they are attached to a master, he has them entirely at his disposal.

631 They did not take part in the revolt of 1916-1918. But since
[668] they left the environs of Kidal in spite of the order which had been given them to remain there, they were overtaken and raided by the column of Captain Depommier in the outskirts of Tamaïa.

565 The Iklan-en-Taousit. -- The Iklân-en-Tăousit, still called
644 Kel Koas, were probably former servants of the Imenân; /198/ they
631 made up the sultan's guard and were still dependent on his command at the end of the last century.

Their name means "servant of the tribe." They are said to be
[184] of low birth, and unlike all the other Tuareg, they have no aversion
[241] to working the land. They contract alliances with the people of the Djanet oasis.

631 They are subdivided into Iklân Settafen and Iklân Mellen, and
[162] they include about 180 people, some 60 of them men.

[231] They own about 250 camels and 400 goats which are grazed in the Lower Ahaggar, in the Tăhalra, and in the region of Silet-Ăbalessa, as well as in the northeast of the Adrar near Tin Zaouaten.

[241 Much interested in cultivation, they own gardens in the centers
423] of Tîgeneouin, Ăbalessa, and Tifert, as well as in the little palm grove at Tibeghîn, beside Silet.

[669] During the revolt of 1916-1918, they did not do anything to speak of.

[648] Today they furnish a good part of our mounted troupe.

The Issekkemaren. -- The Issekkemaren, whose name is
563 synonymous with "mixed," were probably from Arab fathers and
631 Tuareg mothers.

They are subdivided into the following eight tribes:

Iheiaouen Hâda
Kel In Rhar'
Kel Tăfedest
Kel Immîdir
Kel Tăzoûlet
Kel I-n-Toûnîn
Kel Térourirt
Kel Ouhet

563 631 They are not vassals like the Irréguénaten and the Ibettenâten, but are incorporated.

563 173 According to a tradition reported by Dr. Richer, (1) the

1. Les Oulliminden, p. 71.

Issekkemâren are the descendants of the family of the Sagmara, pointed out in the Âdrar des Iforas and in the region of Gao by El Bekri. They were driven back by the Sonrhai invasion and came to take refuge among the northern Tuareg while a small fraction remained in the south in the environs /199/ of Timbuktu and today has a marabout character.

[197] 197 [648] Although they are more Islamized than the other tribes, they are nonetheless Tuaregized in the sense that they follow Tuareg customs and speak Tamashek. Many of them speak Arabic fluently, either because of their origin or because of their constant relations with the Tidikelt.

173 563 631 At the time of the division of the Imrad, some tribes were bestowed upon the Kel Rela, others on the Tâitok and the Tégéhé-Mellet. The tribes attached to the Kel Rela are the Ihéiaouen Hâda, the Kel Immîdir, the Kel Tazoûllet, the Kel Tâfedest, and the Kel In Rhar'.

563 439 484 233 They are all great caravaneers who trade a great deal on the Tidikelt markets. They own a large number of camels and their camel raising is particularly renowned.

563 [173] The Iheiaouen Hada. -- The Iheiaouen Hada, also called Oulad Elias or Ihéiaouen-n-Temounent, are said to be descended from an Arab woman who was seized at Touat. The word Iheiaouen means in Tamashek "the grandsons of...," so that we must conclude that the people of this tribe are the descendants of a woman named Ada.

[221] They nomadize in the Tâfedest massif near Âdenek, Abezou, In Takoufi, Eguelougal, and Tidessi. During dry periods they lead their camels to the Saharo-Sudanese borders in the neighborhood of the Tamaïa well.

They are subdivided into three fractions: Oulad Elias, Oulad Asseroum, and Oulad Fassi, grouping about 120 people.

They possess about 100 camels and 280 to 300 goats. They formerly occupied the small centers of cultivation of Sékaïa and Tagemout, which they own, but which they abandoned for lack of water and manpower. Very religious, they are for the most part affiliated with the sect of the Tijaniyyah; four or five of them adhere to Senusism /Sanusiyyah sect. Ed./. They have among their number two pilgrims who have made the trip to Mecca, a very rare feat.

In 1904 they were completely raided by Lieutenant Besset and kept out of the revolt of 1916-1918.

The Kel in Rhar'. -- The Kel In Rhar' probably owe their name to the village of In Rhar' in the Tidikelt, where they must have lived before coming to settle in the Tafedest.

/200/ Their oral tradition relates that they were conquered by Sultan Goma and bestowed upon the Kel Rela at the time of the division of the Imrad.

Numbering about 150 persons, they camp on the eastern side of the Tafedest, and also nomadize in the region of Méniet and in the Immidir.

Before World War I they owned nearly 800 camels and 1, 500 sheep and goats. Their camel livestock has now fallen to 200 head. They own gardens at Mertoutek, a little center which belongs to them entirely, and at I-n-Amegal, Dehine, and Abézou.

Like the Ihéiaouen Hâda, they are mostly affiliated with the Tijaniyyah sect.

During the revolt of 1916-1918, they refused to rise against us, which caused them to be raided by the Ajjer Tuareg.

They are renowned as very great hunters of wild sheep.

The Kel In Rhar' annually pay the aménokal six bags of dates and a young camel.

The Kel Tafedest. -- The Kel Tafedest or Kel Tégatoufé (or ant people) are a very poor small fraction including some 50 persons, 18 of them women.

563 They nomadize near the Garet ed Djenoun, the Aseksem, Amegid, and the Adrar Torha; they own about 300 goats and 30 camels. (1938 census, as opposed to 600 goats and 200 camels in 1905.)

They are the owners of a few gardens in the Tafedest.

They are quite religious and members of the Tijaniyyah order.

The Kel Tafedest annually pay the amenokal four loads of dates and a young camel.

The Kel Immidir. -- The Kel Immidir, or Kel Mouydir, are still called Iheiaouen-n-Tin-Emma. They are of the same origin as the Iheiaouen Hada and the Kel Tazoulé.

They are subdivided into Kel Terahart and Kel Raris and include about 50 people. They nomadize in the Immidir massif toward Joraf and Tagmout and have areas for nomadization between Ifetessen and In Eker.

They are poor people who own about 20 camels and 250 goats. Very good merchants and excellent caravaneers, they hire themselves out to camel owners to provide for their needs.

/201/ The Isselamaten must be added to the Kel Immidir. They are a small fraction of about 15 tents which lives with them and nomadize near Aneserfa, Arak, Ahohor, Tagemout, and Tiredjert.

The Kel Tazoulet. -- The Kel Tazoulet or Dag el Mesk camp in the Tazoulet region and near Tazerouk. They number about 225 people and own 285 camels and more than 2,000 goats. They dryness of the region which they inhabit forces them to take refuge in the Sudan when there are no rains in the Ahaggar.

They possess gardens at Bloumet, Iberbern Touakkine, and at Tazerouk.

They were in contact with the Ait Loaien and followed the latter in revolt, participating with them in the battles of Tit and the Ilaman wadi.

They are quite religious and members of the Tijaniyyah. Four or five of their number have made the pilgrimage to Mecca.

563 [651] Every year they pay the aménokal three loads of dates and three young goats.

[554] The Irréguénaten. -- The Irréguénaten, like the Issekkemâren, are assimilated vassals of a social rank superior to that of the Imrad.

They are of Tuareg mothers from the Ibettenâten tribe and Arab fathers from the Kounta tribe.

They are divided into two groups: 1) the Adrar Irréguénaten or Issettafénine Irréguénaten, who descended from a sherif of Gourara named Abdelmoumen, whose two sons Mouima and Inchelane married Ibettenâten women; 2) the Ahaggar Irréguénaten or Ihaggarénine Irréguénaten, who descended from the Dermachaka, an incorporated tribe of Kounta and Ibettenâten.

All of them nomadize in the northern Ădrar des Ifôras and the Timétrine and even push as far as Erg Chech. They also visit the Ăhnet and Tămasna.

[233] This is a very rich tribe engaged in raising camels. The Irréguénaten own more than 2, 300 camels, 350 cows, and more than 2, 350 goats and sheep.

[162] In 1908 they numbered 50 to 60 men, according to Benhazéra. The 1938 census raises the figure to 358 persons, 100 of them fighters.

[651] /202/ They pay the tioussé to the descendants of the Inemba and to the descendants of Si Mohamed ag Othman.

[669] Although they associated with the Adrar Kounta, they maintained relations with the rebellious marabout Abidine, who took refuge among the Kel Ahnet. They probably even served him as spies, and the people of Ădrar des Ifôras held them in suspicion for a long time.

[28] [462] Their camel raising is very well known, and their wives are quite expert in leatherwork.

[609] There are also Irréguénaten in the Niger loop, but they have no bonds of kinship with the Ahaggar Irréguénaten.

565 614 101 131 ference of the resulting oval is closed by the Negro-Tuareg contact zone of the southern Aïr. The Ahaggar massif lies at the center of this oval refuge area: it is a Berber island, so to speak, whose broad beaches are continually swept by waves of the surrounding Arab sea and, along the southern and southeastern shores, by the negroid "Gulf Stream" of the Sudan.

565 174 563 [797] There have probably never been many Shorfa or Maraboutic families established in the Ahaggar itself, although a few of them have lived there for a long time now. Arab Shorfa missionaries from Morocco first arrived probably in the 7th or early 8th century. They soon set up a theocratic dynasty, the Imenan, who ruled the Ahaggar and the Ajjer Tuareg as a single confederation until about 1650, when Goma, last of the Imenan "sultans," was murdered by Biska, a noble of the Oraghen tribe of Ajjer Tuareg. There followed a long period of anarchy and civil wars out of which finally arose, about the middle of the 18th century, the main framework of the Tuareg political structure which we now know. Descendants of immigrant Arab holy men are very few and scattered in the Ahaggar today, and their power has been reduced to no more than a faint shadow of what it used to be. People of this kind are much more numerous, united and powerful in the northeastern and southwestern corners of Tuareg territory, among the Ajjer and the Ifoghas of the Adrar, than they are in the region with which we are directly concerned at the moment. It is significant, however, that as recently as 1900 a Shorfa holy man exerted decisive influence in the electoral council of the Ahaggar confederation when that body found itself seriously divided over the choice of a new amenokal (Benhazera, 1908, p. 126).

[591] [611] We know that Arab blood has been seeping very gradually into the topmost level of the Tuareg aristocracy, for at least a century, through the occasional marriages of noble Tuareg women with Arab men. In all such cases residence is strictly matrilocal. Since rank is inherited through the mother, a son of this kind of union ranks as a Tuareg noble and can become a chief. Duveyrier (1864, pp. 22–23) describes the case of the Ajjer Tuareg governor of Ghat in 1861, whose father was

565 an Arab merchant from the Touat, Leblanc
●563 (1946, table facing p. 40) mentions an heir to
174 an Ajjer Tuareg chieftainship whose father was an Arab, and the son of a Maraboutic Arab from Ouargla is at present one of the potential heirs to the paramount chieftainship of the Ahaggar confederation.

The question of Tuareg mixture with the Teda has been discussed above, in the section dealing with the latter group.

771 Although the Tuareg of the Ahaggar still retain much of the pre-Islamic magico-religious practices and doctrine of their animistic ancestors, they are all Moslems now, at least nominally, but are not very pious as a rule. It has been said that the Tuareg once had a Berber translation of the Koran, in the 8th and 9th centuries (Benhazera, 1908, p. 57), but it was long ago destroyed or lost (if indeed such a text ever did exist) in the course of a religious reform movement. The annual
[796] Moslem fast, during the month of Ramdhan, is not very generally observed, although in the middle of the 14th century Ibn Battuta (Gibb, 1929, p. 338) noted that the Ahaggar Tuareg suspended raiding operations during this period.

794 The religious order of the Tidjani used to count an overwhelming majority of the Ahaggar Tuareg among its followers, but the Senoussi have built up a substantial following in the region during the last 70 years or so, much aided in this by Tuareg who passed through Senoussi territory on the pilgrimage to Mecca. Very few Tuareg from the Ahag-
778 gar have been to Mecca in recent times, although Lyon (1821, pp. 101–102) saw a single group of roughly 150 of them pass through Mourzouk on their way there in May, 1819 (before the Senoussi order was founded). The
643 Amenokal, Mecca pilgrim or not, has usually
771 been the local model of formal piety. Bey ag Akhamouk, the present Amenokal of the Ahaggar, is an unusually good example of this, as was Moussa ag Amastan in the early years of the present century. There are indications that in ancient times Tuareg chieftains may have been vested with religious as well as temporal primacy (Bates, 1914, p. 117).

648 The European conquest of the Sahara Des-
791 ert has done much to stimulate the Islamization of the Tuareg in general during the last

claim that this blue tint is excellent for the health. As in the Tidikelt, a white garment is not fit to wear until it has been sufficiently tinted blue by contact with "chegga."

The Tuareg value our medicines, "asafar" ⵓⵙⴼⴰⵔ plural "isefran" ⵉⵙⴼⴰⵔⴰⵏ, and believe in their efficacy. This is also due to the fact that they are given to them free, for under no circumstances does the Tuareg like to loosen his purse strings, and he never ceases to beg for anything he sees that he hopes to get for nothing.

However this may be, it is good to note that he comes very willingly to be treated by us. A French doctor would certainly be very well received by the Tuareg.

The most usual diseases among them are fever, "tazzaq" ⵜⴰⵣⵣⴰⵇ, gonorrhea, "talaoaɪt;" rheumatism, "tessemdhi" ⵜⵙⵙⴻⵎⴷⵀⵉ; and headaches, "tekmou-n-ir'ef" ⵜⴽⵎⵓⵏⵉⵔⵄⴼ.

Chapter XVII

Negroes and Negresses

There is no Tuareg tent which has not at least its negro and negress. The frequent raids that the Ahaggar made in the Niger and in the Sudan procured them all the slaves they have.

They devoted themselves greatly to the Negro trade, which brought them fine profits since they had only to take the negroes without expense.

The conquest of the Sudan and the Saharan Oases gave them a terrible blow from that standpoint. Besides, with the progressive pacification of their territory and that of the neighboring tribes subject to them, they would soon have to renounce all hope of new raids, and one may say that the Negro trade, if not entirely destroyed, will at least be considerably diminished.

The negroes and negresses are well treated by the Tuareg, who do not impose hard labor upon them. The negroes are primarily busy with the flocks, which they drive to pasture and water. The negresses are concerned with the kitchen; they go after water and take care of the children.

Tuareg Watering their Sheep at the Tin Zaouaten Well

Negroes and negresses also gather the harvest of "toulloult" and "afezzou" grains, but this is more fun than work, for everyone takes part in it with them, in gay groups.

Many negroes eventually become the trusted men of their masters, who put them in charge of caravans or even of responsible missions. Thus, the amenokal Moussa had a trusted negro, Chernach, whom he regarded highly, for, he said, "I know that this man would have himself killed for me." Moreover, he gave him a gun, a spear, and a saber. /33/ These negroes are very happy and can consider themselves as freed.

Besides, there are few negroes who are not armed by their masters with a "tar'da" (spear with a wooden shaft) and with a "takouba" (saber), of which they are very proud. The best are sent on raids, and it seems that they acquit themselves very well in combat. 411 563 567 726

As to the negresses, there are some who confine themselves to attending to the care of the household and the tent, but there are quite a few others who are raised to the dignity of concubines. A noble Tuareg prefers to share his bed with a negress rather than to marry a "tamr'idt" (serf). He marries late, and when he decides to, he looks especially for a woman who, by her /34/ birth, will give his children future rights to command. The negress profits from this. 563 567 595

The negroes and negresses are not, as a rule, mistreated by the Tuareg. Besides, if the case should arise, they know how to use the following curious custom in use among the Tuareg. 563 567 685

When a slave, negro or negress, becomes too unhappy with his master and wishes to become the slave of another master, he splits the ear of a child or a horse or hamstrings a mehari; in short, damages anything valuable that belongs to the master he wishes to have; then he stays beside his deed. Naturally, in reparation for the harm done, the negro is given in full possession to the injured master. There may be protest, if there was connivance between the slave and the master he wishes to have, and, in this case, the oath is deferred and the case brought before a marabout or a cadi. [692]

Thus the negress Tenoufek, who belonged to Semana, sister of Bika ag Moumou of the Kel Ahnet, slit the ear of a mare belonging to Sidi ag Keradji, the amenokal of the Taïtoq and the Kel Ahnet. In reparation the negress was given to Sidi, with whom she still remains.

Another example: the negro of El Biodh ould Settafi of the Settaf, hamstrung two camels belonging to Ibedi ag Bassi of the Ir'echoumen. In reparation El Biodh had to give Ibedi the negro and a camel besides. /35/

5: Nicolaisen E-4, 5 (1951-1955) 1959
MS25 Tuareg MS25
Ahaggar
Air

Even when grazing is good stock-breeding products are less important for food in Ahaggar than in Air as is illustrated in fig. 3 depicting the relative importance of milk food and vegetable food. A small part of the vegetable food is provided by collecting seeds of grasses and herbs, while roots, stems, and berries of wild plants are less significant. The bulk of Tuareg plant food consists of millet, barley, wheat, and dates. In Ahaggar many Tuareg have gardens with wheat and barley cultivated for them by black-skinned agriculturists generally known by the Arab word *Haratin* (*Izzegaren* to the Tuareg). But most Ahaggar Tuareg acquire the bulk of their plant food from caravan trading with the oases of Tidikelt (dates) and with Sudanese villages as far south as Zinder (millet). Even in years of drought they can obtain millet from the Sudan in exchange for rock-salt broken at Amadror north-east of Ahaggar. In Air caravan trading with salt seems less necessary to Tuareg subsistence, although there are also in this country Tuareg who trade with salt from Amadror or Bilma. Most pastoral households however have a fairly regular surplus of livestock, butter, and cheese which can provide for the necessary amount of millet bought in Agadez or south of the massif in Damergou. There are also in Air a great many negroid agriculturists from whom pastoral Tuareg can buy vegetable products. But millet, which forms the prominent part of Tuareg plant food, is grown to a very slight extent by the agriculturists of Air. Dates are important in particular to the Ahaggar Tuareg who acquire large quantities from the oases of Tidikelt. There are also a few Ahaggar clans the members of which own half-wild palms with dates of an inferior quality, as there are Tuareg who have a few palms growing in their garden plots. In Air dates are not so important for food but even there pastoral Tuareg may have some palms. Among the Tuareg of Tassili-n-Ajjer it is very common for pastoralists to sow wheat and barley in the river valleys when these have been heavily flooded (Nicolaisen 1954, p. 83, 88), and this primitive agricultural method was apparently known also to the Ahaggar Tuareg in the past (Duveyrier 1864, p. 372). More recently many pastoral Tuareg of Ahaggar and Air have taken up agriculture by means of irrigation. There seems to be a tendency towards semi-nomadism among the Tuareg who are very dependent on vegetable food derived from agriculture.

The Negroes Of The Sahara.

In the above section on Tuareg ecology it is stated that Air climatically and botanically is closely linked with the Sudan. This is true also zoologically as the Air fauna contains a great many species of birds and mammals characteristic of tropical Africa. The bird life of Air seems very akin to that of the Sudanese savannah, and, for instance, guinea fowls are extremely common even in valleys of the northernmost parts of the massif. As examples of tropical mammal life in Air we may here mention that the wart-hog lives in Central Air, and that oryx antelopes

[TEXT CONTINUES ON p. 76]

5: Nicolaisen E-4, 5 (1951-1955) 1959
MS25 Tuareg MS25
Ahaggar
Air

and giraffes are found in the plains immediately south and west of the massif. I do not wish here to compare in detail the natural history of Air and Ahaggar. But I wish to emphasize the fact that climatically, botanically, and zoologically an important dividing line runs between these two Tuareg countries. This should not be overlooked in an anthropological description of these parts of Northern Africa.

At present both fair-skinned Europids and black-skinned negroid people live all over the Sahara, and are frequently mixed. There seems to be little doubt that in the north most negroes have come in with the slave trade. We cannot entirely exclude the possibility that part of the northern negroes constitutes an ancient population of the Sahara (cf. Capot-Rey 1953, p. 167 ff.), but in Ahaggar the negroes seem to have arrived later than the fair-skinned Berbers. Until a hundred years ago all negroes of Ahaggar where apparently Tuareg slaves bought or captured in the Sudan, but the negroid Haratin then immigrated from Tidikelt to make gardens for the Tuareg. They introduced the irrigation systems known to the Tuareg as *efeli*, to the Arabs as *foggara* (i.e. irrigation by means of subterranean aqueducts), but the solid houses built of mud *(tapahant)* so characteristic of the northern oases were apparently not introduced by the first immigrants of Haratin, but later. Another immigration of negroid agriculturists came from Tassili-n-Ajjer and in particular from the oasis of Djanet. It is not quite certain whether they came before or after the Haratin. They are said to have introduced irrigation by means of wells *(tanout)* from which water is drawn by zebus (or donkeys), and two particular types of dwellings are also ascribed to them, namely a subterranean or semi-subterranean dwelling *(edamous)* and a square hut *(ekeber)* covered with straw or rushes. Immigrations of predominantly negroid agriculturists from Tidikelt and Djanet take place also in modern times, but all the present agriculturists do not descend from immigrants of these regions. A large part of them are descendants of Tuareg slaves manumitted by their masters.

Negro slaves have also been introduced from the Sudan to Air by pastoral Tuareg, but there is no doubt that Air originally was a pure Sudanese country anthropologically, as it is Sudanese with regard to climate, botany, and zoology. In other words, the oldest known inhabitants of Air were negroes while the fair-skinned Berbers have arrived at a later date. It is stated both by Nicolas and Urvoy that Air before the Tuareg was inhabited by negroid Hausa or Proto-Hausa (Nicolas 1950a, p. 45. – Urvoy 1936, p. 198 ff.), and Barth claims the word *Air* to be relatively late and of Tuareg origin, the word *Azben* also used as a name of the massif to be of Hausa origin and older (Barth 1857, I, p. 369). My investigations fully confirm these statements. All Tuareg questioned about the history of Air seem to admit that the negroid agriculturists have lived in the country before the Tuareg, and there are in the Berber dialect spoken by these people a great many Hausa words. It is, I think, of particular interest that the negroid village population of Air is said to have a kinship system quite distinct from that of all true Tuareg while

5: Nicolaisen E-4, 5 (1951-1955) 1959
MS25 Tuareg MS25
Ahaggar
Air

563 601 akin to the system in use among the black-skinned citizens of Agadez. These propt. draw no distinction between parallel cousins and cross-cousins, while distinct terms for these relatives are characteristic of true Tuareg systems (fig. 8 q).

563 342 The material culture of the Air negroes is marked by both northern and southern traits. The most common type of dwelling is a beehive hut *(tatromt)*, which I have also seen south of Air in the savannah, while similar huts are unknown to the north in Ahaggar and Tassili-n-Ajjer. The huts are often placed within round enclosures which are possibly of Sudanese origin (cf. fig. 15). There are however other types of dwellings in the Air villages. Very common is a square straw hut *(terhira)* with a slightly elevated saddle-roof. It is built by the men while the beehive hut is made by women, and both types are frequently used by one and the same household. This square hut differs constructionally from the straw huts used among settled agriculturists in the north. Also rather common is a barrel-vaulted hut *(ehen)* covered with mats (fig. 14). It has the same name and is of much the same construction as the movable huts or tents used by most pastoral Air Tuareg (fig. 5 & 13). It is built by women and seems to have been introduced by pastoral [462] women married to settled agriculturists. Finally there is in some villages a rectangular house *(tarachant)* with a flat roof. It has very solid walls generally built from stones inserted in and covered with mud. It has various sub-types more elaborately described by Rodd, who considers these houses to be of northern origin (Rodd 1926a, p. 240ff.). They have most probably been introduced from Tassili-n-Ajjer 177 312 or the Fezzan from which regions came also the irrigation system now forming the basis of agriculture all over Air, namely the drawing of water from shallow wells *(anou)* by means of zebus. This system is extremely common in the Fezzan and Tassili-n-Ajjer from where, as mentioned, it was introduced also to Ahaggar. It is not known when it came to Air, but in many villages it has been adopted only very recently. Not so many years ago water for irrigation in most villages was apparently raised by human power, namely by the pole and bucket provided with a counterweight *(aroudit)* (cf. Capot-Rey 1933, p. 322), but this method has now disappeared. It can be considered the oldest irrigation machine and it is no doubt [174] of very great age in Northern Africa including the Sudan. The method however 241 involves much strenuous work and in view of this it may seem quite natural that agriculture in Air was in the past also practised as shifting cultivation without any irrigation. Rodd states that in certain areas of Air rain-grown crops could be raised most years and that in the past a fair amount of cereals seems to have been produced in this way (Rodd 1926a, p. 133). I think this is correct. Certain crops as for instance millet has a very short period of growth; in Ahaggar (Abelessa) millet is sown in June-July and harvested in September, and it is said that it is not watered very much and never to the same extent as wheat grown in winter. It would no doubt be possible to grow millet in many parts of Air without artificial irrigation during the rains, and in fact millet was grown by shifting cultivation not far from Agadez as recently as up to the French occupation. But nowadays agri-

5: Nicolaisen E-4, 5 (1951-1955) 1959
MS25 Tuareg MS25
Ahaggar
Air

culture is never practised without irrigation. Rodd thinks that the Air agriculturists gave up shifting cultivation because they are too poor to-day to risk losing their seed in the event of inadequate or irregular rainfall (Rodd 1926a, p. 133). I rather think the reasons are that the agriculturists of the massif nowadays grow very little millet and have a better irrigation system than in the past. In summer maize forms by far the most important crop, and it needs irrigation which is comparatively easy when using zebus for drawing water. However this may be we can assume that a type of agriculture related to Sudanese shifting cultivation was formerly important to the Air agriculturists, and although irrigation is nowadays used everywhere agriculture in certain places of Air is still a kind of shifting cultivation. Many agriculturists do not resort to manuring nor do they carry fresh soil to the gardens as in Ahaggar. With crop rotation they utilize one and the same plot for a few years but then have to cut trees and brush-wood somewhere else to make a new garden. A new well must then also be dug, but as irrigation wells are rather shallow this work is comparatively easy.

There are in Air certain agricultural implements related to those of Sudanese farming cultures. We must mention in particular a small hoe hafted by means of a thong *(tagoumit)*. It is unknown both in Ahaggar and Tassili-n-Ajjer as well as further north in the desert while extremely common among Sudanese shifting cultivators. Feilberg has classed it with the so-called Old Sudanese Culture established by Baumann (Feilberg 1934, p. 260ff. – Baumann 1940, p. 50ff.; 1944, p. 213ff.). Baumann claims that this culture did not know the sickle, considered by him an implement of the so-called Young Sudanese Culture (Baumann 1940, p. 56ff.; 1944, p. 283ff.). The sickle (Air: *elegesouar*, Ahaggar: *amreh*) is in fact unknown in many Air villages, and is according to my investigations not generally used for the harvesting of crops but for cutting annual grasses to be stored for fodder. In Air the harvesting methods are as follows:– millet is cut with a knife, maize is cut at the root by means of the above-mentioned hoe, while wheat and barley are pulled up with the hands. Similar harvesting methods seem to be known in the Sudan (Baumann 1944, p. 295ff.). As a Sudanese trait we can perhaps also recognize the large clay amphorae used for the storage of cereals (Rodd 1926, p. 317. – Nicolas 1950a, p. 146).

We can conclude this section as follows:– While the negroes of Ahaggar apparently have arrived in that country later than the fair-skinned Berbers the oldest known population in Air were Hausa-speaking negroes subsisting predominantly as agriculturists. Their original culture apparently was closely related to that of Sudanese shifting cultivators. Contacts with the north and in particular invasions of fair-skinned Tuareg have changed their cultural position. Mixing with the Tuareg they have also changed their physical type, but they are still predominantly negroid. They have adopted a Tuareg dialect but have retained part of their old vocabulary.

/46 cont./ Man

571 In order to understand Tuareg country well, it is necessary to examine the people from the ethnic point of view, in so far as this is possible, and also from the social and economic point of view.

A concise table will show the different ethnic groups, the social classes, and the economic specializations; it will facilitate a better understanding of the human relations.

A. Ethnic /groups/

571 563

1.	Whites :	Berbers	: Tuareg	Nobles
				Imrads, except for the Issakamaren
		Arabs	: Mozabites	
			: Chorfa	
			: Chaamba	
2.	Blacks :	Iklan	: Sudanese	
		Harratin	: Sudanese, Saharans	
3.	Mixed :	Maalmines :		
		Issakamaren: Arab - Tuareg		
		Mixed Tuareg - Negro		

/47/

B. Social Organization

571 564

1. Tuareg
   1. Nobles (Ihaggarènes)
   2. Vassals (Imrads)
   3. Artisans (Inaden)
   4. Gardeners (Harratin)
   5. Domestics (Iklan)

2. Arabs
   Chorfa (holy men)
   Zaoui " "
   Chaamba
   Miscellaneous
   Mixed

3. Mozabites

565/49 cont. / been the ruling caste for a long time? One is obliged to remark their true nobility, their refined politeness, and their never failing courtesy. They are more open than the imrads, often more intelligent, and some of them even possess a sense of humor. Beyh ag Akhamouk, the present amenokal, is a very representative personage and has fine qualities as a chief. The young Kel Rela turn more and more to the French, associate with them, become their friends. This attraction will become generalized little by little, that is, the esteem that these young people have for particular individuals will be extended to include France, which is only an abstraction for them.

[162] [563] The Kel Rela number slightly over 300 and possess about 350 black servants. Their tents are scattered over the whole of Ahaggar territory. The camp of the amenokal is never very far from Tamanrasset.

[162] Another noble tribe, the Tédjéhé Mellet, is not large; reduced to 32 individuals, it ordinarily sojourns in the Tefedest near the imrad tribes it possesses: the Kel Ohet and Kel Terrourrit. These nobles play practically no role in the Tuareg organization of the Ahaggar. The tribe's amrar is Khourou ag Salah.

Since our arrival in the Ahaggar, the Taïtok tribe has been exiled to the Sudan and has been dispossessed of its lands.

[162] There still remain, however, about 30 nomadic Taïtoks in the vicinity of Tamanrasset. Illou ag Amri is the amrar.

[162] Nearly 70 nobles from the Sudanese tribe of Iforas sojourn in Ahaggar territory. They are often allied with the Kel /50/ Rela. Among these Iforas are a few who belong to the marabout Iforas of Temassinine.

The Imrads

According to legend, the Dag Rali are the descendants of Takamat, Tin Hinan's servant woman. The mountains of the

565 /50 cont./ Atakor and the Arechchoum are their pasture regions. It is a tribe of rich camel and goat raisers.

[162] [563] It is the most important imrad tribe under the Kel Rela; there are about 390, served by nearly 400 Negroes. The Dag Rali are stubborn mountaineers, a little narrow minded. They [147] are remarkably resistant to fatigue when they walk in their rough country. Let us also note their adaptation to the cold of December, January, and February; the camps are generally situated at an average altitude of 2,000 meters. The Tuareg [29] [132] are clothed in two cotton gandurahs and are quite often wrapped in a "dokali"; they bear cold which drops as low as -12° in the tent toward five in the morning.

The tribe's amrar is Akroud ag Ama (1). The handsomest

1. Died in 1952.

tents belong to the Dag Rali, and the men are renowned as hunters of wild sheep.

[651] The tioussé paid to the amenokal is about 12 mezoued /leather grain sacks/ of dates, eight bottas /bottles/ of butter, the loan of 12 ewes for milk, and ten goats for slaughtering.

Several subgroups may be seen within the Dag Rali, named mainly according to the regions they inhabit: Kel Arechchoumi, /sic/ and the Ikhechemaden, who formerly were imrads of the Taïtoks.

[162] [563] The most numerous imrad tribe is the Adjouh n'Téhélé. It includes approximately 590 individuals and more than 750 Negro domestics. Although imrads, the Adjouh n'Téhélé are regarded as different by the nobles. Toward the eighteenth century, this tribe, which was living in the Aïr at the time, came of its own accord to incorporate itself into the Kel Ahaggar. This was done to escape the exactions /51/ of the sultan of Agadez, who each year demanded a virgin as a sign of vassalage. This tribe's territory of nomadization extends to the east and south of those of the Dag Rali.

565 621 /51 cont./ The most important agricultural centers belonging to the Adjouh n'Téhélé are Tarhaouaout, In Dalag, and Tahifet. There are several subgroups: the Isanden in the Isernan region; the Kel Rafsa, Tahifet region; the Rela'dine, Tin-Tarabin region; and the Kel Hagalella to the south of Tamanrasset. The tribe's amrar is Samaalatokh ag Mansouri. [651] The tioussé paid to the amenokal is approximately the same as that paid by the Dag Rali.

565 [157] The Adjouh n'Téhélé have an open character; they are gay and like to joke, but they have the reputation of being quick tempered and irascible.

The Aït Loen tribe is, like the preceding ones, an imrad tribe of the Kel Rela. It is descended from Takamat. These Tuareg are nomads in the eastern Atakor and sometimes penetrate into Ajjers territory. Their most important center is Tin-[491] Tarabin. There are no roads going into the territory of this tribe, so their tents are rarely visited.

[162 563] There are about 500 Aït Loen; they possess 620 black servants. The Kel Torha, Kel Anahef, and Kel Telerteba are the three subgroups of the tribe, whose chief is El Ralen ag [651] Nissoran. Their tioussé is about four mezoued of dates to the Kel Rela and one mezoued of dates paid by the Kel Torha to the Tédjéhé Mellet.

The Aït Loen are experienced guides for going to the Ajjers and Ténéré regions.

[162 563] The Iklan Taoussit number about 600, served by 650 Negroes. They are nomads in the Tahelra, the Silet region, the Amded and Tekouiat wadis, and in the northern part of the Adrar des Iforas. They formerly belonged to the Imenanes, which accounts for their name, which means "servant of the tribe." [651] Their tioussé is on the order of four mezoued of millet, two bottas of butter, and six milch goats. Dali ag Akoumaris is the tribe's amrar. The subgroup of the tribe which sojourns almost continually in the Tin-Zaouaten region has Khadida for chief.

565 /51 cont./ The Iklan Taoussit are /52/ the Tuareg who consume the most afazzou seeds (Panicum turgidum).

[162 563] There are very few Tédjéhé n'Néfis: 98 Tuareg and 120 Negroes. This tribe, like the preceding one, is imrad of the Kel Rela but formerly belonged to the Taïtoks. The Tédjéhé n'Néfis are related to the Adjouh n'Téhélé and like them were originally from the Aïr. Their camps are generally in the Tamanrasset wadi, downstream from the village, mostly near the gardens of Tidjenouine. The chief of the tribe is Ad Noumen ag Khadida.

[162 563] The Ibotenaten tribe, comprising 128 individuals served by 153 Blacks, is enfeoffed to the Kel Rela without being truly imrad. It is said that an Ibotenaten once killed a noble Ahaggar. The tribe was beaten by the Kel Rela and condemned to pay a tribute.

The Ibotenaten are rich camel raisers. They live permanently in the Tamesna, benefitting from the annual rains which make this region fertile. Ould Brika is the tribe's amrar.

[162 563] The Irreguenaten number 434 and have 600 Negroes. Normally they reside in the Tamesna, but they nomadize toward the Iforas and even the Timétrine region. Their name means "mixture of Arabs and Tuareg." They are allies of the Ibotenaten. Rich camel raisers, the members of this tribe are essentially nomads; they possess no agricultural center. They are the best guides to the Tassili n'Ahaggar.

The name Issakamaren designates a group of tribes of Arabic origin which were raided in the Touat and the Tidikelt about the eighteenth century by the Kel Ahaggar. The Issakamaren speak Arabic and Tamashek, but their customs have [631] become those of the Tuareg. They are incorporated in the Tuareg confederation and are treated as imrads, although with a slight nuance of inferiority in the caste system. Their pasture regions are situated on the periphery of the central massif.

[162 563] The Kel in Khar tribe includes 176 individuals and 50 Negroes. /53/ They are nomads in the eastern part of the Tefedest and trade in the Tin-Zaouaten region.

565 /53 cont./ The Mertoutek center belongs to them, and they possess gardens at Dehine and Abezzou.

[65] The tioussé is set at one young camel and a mezoued of dates. The chief of the tribe is Ikharis ag Akcham. They are rich camel raisers and are excellent guides to the Tefedest and the Amadror.

[162 563] The Kel Amguid number about 88 and possess 9 Blacks. They are related to other subgroups of the Issakamaren. They range over the region of Amguid, the Igharghar, and the Tefedest.

[65] The Kel Amguid have gardens at Adenek, Mertoutek, and Ideles. They pay a tioussé of four mezoued of dates, an assaber /mat for the tents/, and a young camel. Kelli ag Khabouba is the chief of the tribe.

[162 563] Imrads of the Kel Rela, the Kel Tazolé number 60 Tuareg and 60 Negroes. They possess an important camel herd and nomadize in the region of Tazerouk, chiefly to the east of that center.

The chief of the tribe is El Mamoun ag el Hadj Baba. Tazerouk is their center, and the small neighboring centers

[65] belong to them. Their tioussé is three mezoued of dates, three lambs, and a four-year-old camel.

The Kel Tazolé conduct caravans in the directions of Ghat and the Tidikelt. They exchange millet in Aïr.

[162 563] The Eouen n'Hada number 241 individuals and 90 Negroes. They are nomads in the Tefedest, the Ifetessen, and sometimes in the Selbourak wadi. Tadjemout is their agricultural

[65] center. They pay the amenokal a tioussé of three mezoued of grain, a young camel, and a rug.

The Eouen n'Hada, whose amrar is Nassamou ag Elias, are guides for the Immidir.

[162 563] The Kel Immidir are around 170 individuals; they have 45 black servants. This tribe nomadizes particularly in the tassili, region of Arak, the Ifetessen, and the Rharis.

[65] They own the palms at Tadjemout and the Djoraf. This tioussé amounts to six mezoued of dates and a rug. The amrar

565 /54/ is Sidi Rali ag el Hadj Mohamed. The Kel Immidir are caravaneers going toward Ghat and the Tidikelt.

The Kel Tefedest tribe is poor: for 61 Tuareg, it has only [162 563] 11 Negroes. Allied to the Kel Tazolé and the Kel Immidir, it nomadizes in the Tefedest and the Immidir. The Kel Tefedest formerly possessed gardens in an abandoned center near In-[651] Amguel (Adjelil). Their tioussé is four mezoued of dates and a young camel. The amrar of the tribe is Ikkan ag Magamed.

The Ikoutessen are very poor and few in number: 85 indi-[162 563] viduals and 20 Negroes. Lamari ag Moudi is the tribe's amrar. [651] They were paying a tioussé of two mezoued of dates, a guerba /waterskin/, and an empty mezoued. The Ikoutessen ordinarily sojourn in the Amguid region; they travel to the Sudan and the Tidikelt.

Formerly belonging to the Taïtoks, the Kel In Tounine now are under the Kel Rela. They are not numerous and live in the Igharghar region. The Kel In Tounine possess gardens [651] in the Ajjers. They paid the Taïtoks, very irregularly, a tioussé of six mezoued of dates and two sheep. They are guides for going in the direction of the Ajjers.

The Kel Ahnet, former imrads of the Taïtoks, at present [162 563] belong to the Kel Rela. This is a poor tribe of 125 Tuareg and 10 Negroes. They are nomads in the Ahnet, the Acedjerad, and the Adrar des Iforas. They are excellent guides for the Tanezrouft. They possess gardens at Abalessa, Tahart, Tit, and Tibeghim, and palm trees in the Ahnet.

The amrar is Daniel ag Chikkat. The Kel Ahnet trade between the Tidikelt and the Iforas.

[162] The Iouarouaren tribe is composed of only 47 individuals and have no Negroes. It nomadizes in the Acedjerad but resides mainly in the Tin-Zaouaten region. Its chief is Bahman ag Beuh. The Iouarouaren possess palm trees at Tibeghim; they have the reputation of being excellent hunters of addax [651] antelopes. They formerly paid the Taïtoks a tioussé of a mezoued of bechena /millet/ and two bottas of butter. They are guides for the Tanezrouft.

565 /55/ An imrad tribe of the Tédjéhé Mellet, the Kel Ohet
[162 includes 80 Tuareg and 20 Negroes. It is allied to the Kel
563] In Tounine and has many dealings with the Ajjers. The tribe's
amrar is Habib ag Ouhaggarène. Its members nomadize in the
[65] eastern Tefedest and own gardens at Ohet and Dehine. The
tioussé formerly was four mezoued of dates, rope, and guerbas.

[162 The Kel Terrourrirt are imrads of the Tédjéhé Mellet.
563] Their tribe is not numerous: 62 Tuareg and six Negroes. They
are very poor. They camp in the Amguid region and in the
Tassili des Adjjer and possess several gardens at In-Amguel.
[65] The amrar is Hadj Mohamed ag Salah. They were paying
four mezoued of dates, four sheep, rope, and guerbas. They
trade with the Tidikelt.

The Ibardjien are not Issakamaren. They are imrads of the
[162] Kel Rela. It is a tribe destined to die out; there are only 24
left. They reside in the Tazrouk and Ideles region. They
were remarkable hunters of wild sheep and had dogs trained for
this practice.

The presence in the Ahaggar of former soldiers, most of
them Chaamba, must be noted. They marry Tuareg women,
found families, and raise their children in the Tuareg customs.
They are fairly numerous in the Tin-Zaouaten region.

The Maalmines. Inaden

565 Within Tuareg society are found artisans called
463 "maalmines" in Arabic, but whose Tamashek name is "inaden."
The masculine singular is "inade;" plural, "inaden." The
feminine singular is "tinat;" plural, "tinadin."

The maalmines make up a tribe whose members almost
always marry among themselves. They are related to the
maalmines of the Iforas and of the Aïr. Although very black
skinned, they do not have negroid characteristics. The origin
[174] of the maalmines is as obscure as that of the Tuareg tribes;
some think /56/ they are Jews who were captured by the Tuareg

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[563] /57 cont./ The harratin, who are also Negroes, are ranked as low as the iklan by the Tuareg, who have a high degree of racial prejudice.

However, there is a nuance: the "akli" (plural: "iklan") belongs to his master, the Targui; he cannot leave him, and, if he is no longer bought and sold because of the presence of the French, he considers himself the property of his master. The /58/ hartani is a free man; he may live where he wants to, do what work he will where he will; he makes contracts with the Tuareg and is dependent on them only in so far as his work is. Moreover, as a resident of the Ahaggar, he must observe the customs of the country.

[622] [631] He is under the authority of the village chief, who is also a hartani, responsible to the amenokal (1).

1. This ranking and this information concern the observance of custom and have nothing to do with French law, which is administered by the head of the annex and by the judicial authorities at Batna.

The harratin of the Ahaggar apparently have two possible origins. Some come from the oases of the Touat and the Tidikelt. This population movement has, it appears, always [166] existed. The number of these harratin varies; there is, in fact, a continual coming and going between the Ahaggar and the oases of the north, according with the dry and wet years.

The other harratin are iklan who have been freed by the Tuareg. The chief cause of this emancipation is the growing [567] poverty of the nobles and vassals, who no longer have sufficient resources to feed and clothe their domestics.

6:Blanguernon Y-5 (1937-1954) 1955 MA25 Tuareg MS25
Hoggar

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291
142

38. Young Targui and his black servant at Ideles.

[p. 226]

7:Nicolaisen E-5 (1951-1962) 1963 MS25 Tuareg MS25

The Ayr Tuareg say that the blacksmiths do not have *ténet* words for everything, but always use Tuareg words for certain objects and animals. It is in fact possible that the *ténet* language has been created by the blacksmiths to be used as a secret language. This explanation agrees excellently with the social position of blacksmiths. They make weapons, ornaments, household implements, and the like for the Tuareg. The Tuareg therefore consider them indispensable, and admire them for their skill. But this is only one aspect of the Tuareg attitude towards blacksmiths who are also looked down upon because of their obscure origin and their predominantly negroid appearance. Furthermore, blacksmiths are frequently wearisome to the Tuareg. They claim gifts from the Tuareg on every possible occasion, and if they are given nothing when they ask it is believed that they can do severe harm to the persons from whom a gift is claimed. For the blacksmiths possess a mystic power known to the Ayr Tuareg as *ettama* or *tezma*. This mystic power has nothing to do with black magic. It comes into action automatically without any physical performance by the blacksmith if his demand is ignored. The *ettama* power is dangerous to children and to animals but not so much to adults. Children frequently fall ill with a swollen belly, while the effect on domestic animals is more severe and often causes their death. Though blacksmiths do not perform any physical act to put their mystic power into operation, they are nevertheless held responsible for damage ascribed to it by the Tuareg. This can be illustrated by the following example from Southern Ayr: — An Ayr Tuareg was on his way from Damergu to Ayr with a caravan of camels loaded with millet. One evening at dusk, when he was just about to lead his camels out for grazing at night, a blacksmith came to him to ask for a gift of millet. The Tuareg said that the blacksmith had better wait until next morning as it was already getting dark. The blacksmith went away, and shortly after his departure one of the Tuareg's camels fell ill and died. The Tuareg was convinced that the death of his camel was due to the blacksmith's *ettama* power, and therefore wanted revenge. He mounted a camel, pursued the blacksmith and killed him with an axe. This event happened only a few years ago. It illustrates how firmly many Tuareg believe in the evil *ettama* power of blacksmiths. In fact many Tuareg openly declare that they dislike and fear all blacksmiths. They do not like to associate with them except on festive occasions when blacksmiths frequently act as singers and musicians. The Tuareg never intermarry with people of the blacksmith caste, and even people of other negroid castes are reluctant to intermarry with blacksmiths. In Ahaggar a marriage may be contracted between blacksmiths and *Harratin*, and in Ayr there are said to be a few marriages between blacksmiths and people of other negroid classes or castes. But on the whole the caste of blacksmiths (*Ineden*) can be characterized as endogamous. This is quite natural in view of the fact that blacksmiths possess the evil mystic power (*ettama*, or *tezma*), which I have described in more detail elsewhere (Nicolaisen 1961, pp. 134 f., 146).

Between fair-skinned, true Tuareg and other black-skinned castes but that of the blacksmiths, marriages are contracted now and then, and it seems as if mixed marriages of this type are becoming more and more numerous. In Ahaggar there are some marriages between Tuareg and women belonging to the castes of slaves (*Iklan*) or sedentary agriculturists (*Harratin*, or *Izeggaren*) and there are even marriages between fair-skinned Tuareg women and negroid men though such marriages are less frequent. Mixed marriages are even more frequent in Ayr. The offspring of such unions are known in Ahaggar and Tasilé-n-Ajjer as *Iburelliten* (*Aburelli*). This word is also known to the Ayr Tuareg, but

7:Nicolaisen E-5 (1951-1962) 1963 MS25 Tuareg MS25

291
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Fig. 12. Blacksmith woman. Ahaggar, Abalessa.

563 they more frequently refer to mulattoes as *Ichardanen* (sing. *Acharda*). Such mulattoes do not form any particular class or caste.

It is stated in almost all writings on the Tuareg that the offspring of mixed marriages will acquire the social status of their mothers, but though this may be theoretically true in some Tuareg groups actual conditions are more complicated. Among *Ineslemen* Tuareg and generally in southern Tuareg groups there is a strong tendency to acknowledge patrilineal affiliation. In Ahaggar classes and castes should ideally be matrilineal organizations. However, this is not always so. A man who descends from a vassal mother and a noble father will not become a true vassal. He will not have to perform any of the obligations characteristic of the vassal class, and to-day he is normally considered noble though he cannot succed to chieftainship in his father's tribe. If a pastoral Tuareg marries a woman of one of the black-skinned castes the children who grow up in the father's camp will frequently remain there as pastoralists and members of their father's tribe. Conversely children descending from a black-skinned father of an agricultural settlement and a fair-skinned pastoral woman will often remain in the settlement to practise agriculture even after their father's death. As to offspring of marriages between Tuareg men and slave women, they will continue to live in the father's tribe as pastoralists, and will frequently acquire the social position of the father as mentioned later in the description of Tuareg slavery. Mixed marriages between fair-skinned Tuareg and people of black-skinned castes constitute a minority. But it seems as if such marriages are on the increase.

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All the above mentioned peolpe are Tuareg-speaking though part of the sedentary agriculturists of Ahaggar (*Harratin*, or *Izeggaren*) have Arabic as their mother tongue. In Ahaggar there are also many true Arabs – particularly at the administration centre of Tamanṛaset. There are also Arabs at certain other villages in Ahaggar, and there are Arab pastoralists. They have largely mixed with the Tuareg, and certain Arab pastoralists such as the *Ahl Azzi* (*Kel Ṛezzi*) should be classed rather with Tuareg than with Arabs. There are also some Arabs in Ayr. There are Arab traders at Agadez, Iferwan, and Ingal, and there are a few Arab pastoralists who have mixed with pastoral Tuareg of Northern Ayr.

7:Nicolaisen E-5 (1951-1962) 1963 MS25 Tuareg MS25

But pastoralists of Arab descent are limited to a few scattered individuals or families in the Ayr area in contrast to the extended Sudanese country around the Niger, where whole pastoral tribes claim patrilineal descent from Arabs, while matrilineally most of them are Tuareg.

There are many other people within the extended country inhabited by the Tuareg. Very important in the south is a numerous population of Hausa-speaking Negroes. The so-called *Imeggedezen* (sing. *Ameggedez*) of Agadez speak Hausa which language is spoken by various other sedentary people of that region and further south. There are also a few Sonray-speaking people at Agadez, and Ingal further west is predominantly inhabited by Sonray-speakers known to the Ayr Tuareg as *Isaweren*. The Sonray, as is well known, are now found almost exclusively along the Niger, but Ayr was once conquered by the Sonray, and Barth describes Agadez as a Sonray-speaking city.

In the south the pastoral Fulani are now invading the grazing grounds formerly reserved to and owned by the Tuareg. Camps of pastoral Fulani are frequently seen nowadays even as far north as the southern outskirts of the Ayr Massif around Agadez and Ingal. When grazing is good the Fulani may even move further north into the Talak plains with their herds of long-horned cattle. Many other people are frequently met in Tuareg country, e.g. the Tebu, and the Kanuri, who frequently come to Agadez. In Ahaggar and in Tasilé-n-Ajjer there are even a few individuals who descend from Tebu women.

Fig. 13. Mother and son. Slaves of the Tuareg in Ayr.

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pair of cross-bars is connected with four short sticks of the same material, each being lashed with hide horizontally to the crossbars. This frame is generally manufactured by sedentary agriculturists of Tidikelt, who also make the large cushion (*tihekam*) of date palm bast to which the saddle-frame is attached with cords. On rare occasions the Tuareg also have saddle-frames of wood (*tabarekkat*, that is *Tamarix aphylla*) made by the blacksmiths on the same pattern, and they may also use cushions of hay stuffed into a piece of matting. The *élaki*-saddle is used in the following way:— The short, looped cords of the loading bags rest upon the wooden frame in front of the camel's hump and on the rear part of the saddle-cushion. A bunch of grass or date palm bast (*aselki*) is placed under the loading cords that they may not gall the back of the camel. In addition to the proper camel-load divided into two halves (e.g., two large bags) there are frequently many smaller objects to be transported, and these are then attached to the wooden saddle-frame. The *élaki*-saddle normally rests loosely upon the camel's back, but it may be fixed to the animal's back by a girth (*ahayif*). It is also occasionally

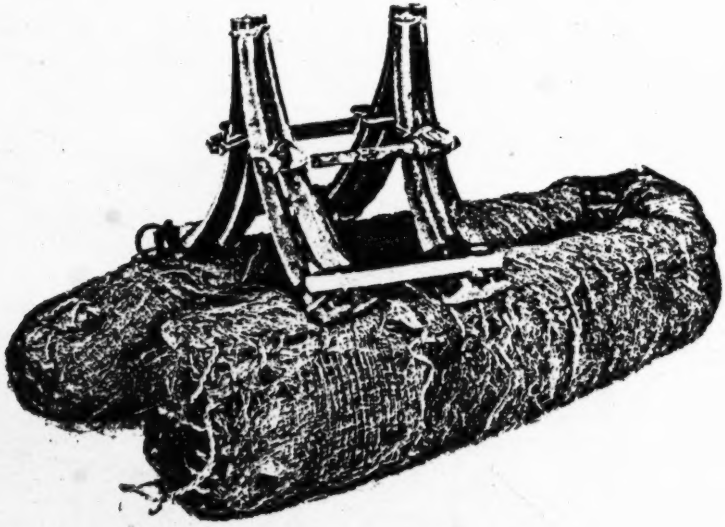

Fig. 55. The *élaki* pack saddle consisting of a saddle frame attached to a U-formed cushion made of date palm bast: The saddle frame made of palm fronds lashed with raw hide. It is called *élaki*, or *erras en eluki*. Ahaggar, Tamanṛaset. Dimension: 0.34 m high. (F.M. 191).
The saddle cushion of date palm bast. It is called *tihekam*. Ahaggar, Tamanṛaset. Dimension: 1.50 m long. (F.M. 192).

7:Nicolaisen E-5 (1951-1962) 1963 MS25 Tuareg MS25

*492 fixed with a rope running under the tail and/or a rope around the camel's chest. The *ilaki*-saddle is [184] unknown to the Ayr Tuareg, but I have seen it in use among Arab traders living at Iferwan of Northern [171] Ayr. It is by far the most common type of pack-saddle in both groups of Northern Tuareg.

Another type of pack-saddle named *tebeyut* or *tkhawit* corresponds to the *berej* saddle of the Arabs. It is used occasionally by the Northern Tuareg, but I have only seen it among the *Kel Ajjer*. The saddle-frame is made from date palm ribs and consists of two cross-bars connected with each other by two crossed sticks at both sides. One of the cross-bars rests in front of the animal's hump, the [283] other behind. The frame is lashed together by means of strips of raw camel-hide and is fastened to two pads of palm bast as can be seen from the photograph Fig. 57. As far as I know this saddle-type, [563] like the type above-mentioned, is manufactured by palm-growing agriculturists of the oases. This saddle type seems to be unknown among the Ayr Tuareg.

The proper pack-saddle used among the Ayr Tuareg is known to them as *aruki*. It consists of one [288] wooden arch lashed to two flat boards (Fig. 58). These two sideboards are attached to two pads made from hay stuffed into tubular pieces of dum palm matting. The two pads or mat cylinders are fitted on each side of the camel so that the wooden arch rests in front of the hump. But there is also a rear pad consisting of a stuffed skin-bag laid over the camel's back behind the hump and attached to the wooden arch by means of cords. The loading cords bear on this stuffed skin-bag and on the mat-[564] cylinders in front of the wooden arch. The wooden arch is manufactured by blacksmiths, while the side pads and rear pad are made by the Tuareg. The saddle is not generally fixed to the camel by means of girths or cords. The place of origin for this saddle-type seems to be Ayr. It is used also among the *Kel Geres* Tuareg, and it seems as if related saddle-types occur elsewhere in the south (cf. p. 311).

*492 Transportation bags of various types are used for camel loads, but the very large bags woven from 415 a mixture of goat's hair and camel's wool so typical of northern Arab pastoralists are not in current use among the *Kel Ahaggar* and the *Kel Ajjer*, and are entirely unknown to the Tuareg of Ayr. The [563] Northern Tuareg generally use bags made from the skin of barbary sheep, or bags made from date palm bast by the sedentary agriculturists of Tidikelt (cf. Fig. 59). In Ayr the Tuareg normally use transportation bags of plaited dum palm leaves.

The ideal load of a camel consists of two bags forming a total weight of up to 200 kgs for a very strong animal. The two bags, which together form one load, are each provided with two short loading loops. They are known to the Ahaggar Tuareg as *elrerwet* when bags are woven, as *tadekmert* when the bags are of skin. The loading is done as follows:— The two bags are lifted up and supported against the sides of the recumbent pack-camel by two men who put the loops of one bag into those of the other and insert between them two little sticks, known in the north as *tihdad* (sing. *tehedit*). To unload the camel all one has to do is to pull out the two small sticks inserted between the loops, [171] and the two bags fall to the ground. This same system is also used in Ayr, and, I believe, among all camel-breeders of North Africa. - To secure the load in a fixed position it is very common to surround its two halves with a rope (*akhamil* in Ahaggar), which is laid over the saddle-frame before loading and another rope around the luggage and the belly of the pack-camel is also used if considered necessary.

*492 When camels are taken to the camp from pasture, they are sometimes mounted without a saddle

[text continues on p. 78]

7:Nicolaisen E-5 (1951-1962) 1963 MS25 Tuareg MS25

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Fig. 88. Riding saddle of the type manufactured at Agadez and used by horse-riding Tuareg and Negroes in Ayr and further south. Note the very narrow stirrups which are often used for the insertion of only one or two toes. (Musée de l'homme, Collection Henri Lhote, 38/617).

231 there are perhaps less than ten horses which are all owned by sedentary people (blacksmiths and [563] Arabs). Conditions for horse-breeding are better in Ayr, but even there pastoral Tuareg do not generally breed horses which for a large part of the year must be fed on barley, millet, or on milk. In Ayr, [563] horses are mainly bred by sedentary Tuareg of the *Kel Ewey* group and by the negroid citizens of Agadez who hold horses in very great esteem. There are perhaps 100–200 horses in and around Agadez, where the animals are kept in or at the houses most of the year to be fed on cereals and on hay of annual grasses cut with a sickle (cf. Fig. 143 f). During the period of *akasa* it is common to let the *492 animals graze on annual pasture, and they are then very tightly hobbled. The Ayr peoples use a bit [171] (*arabo*) (Fig. 89) similar to the type used by Arabs in the North, but their saddles are not of the general Arab type (cf. Fig. 88). The very broad Arab stirrups also seem to be unknown to the *Kel Ayr* and to the *Kel Geres*, who have many horses. The stirrups used by horse-riding Tuareg are generally very thin and slender, and they are frequently used for the insertion of only one or two toes. [13] The riding-gear used by the *Kel Ayr* (including the *Imeggedezen*) and the *Kel Geres* is described in detail in literature (cf. Foureau 1905, III, p. 879 ff. & 921 ff.). This is very complete, and was, perhaps, [175] introduced fairly recently, for we know that the Libyans of Antiquity rode without a saddle and governed their horses mainly by means of a stick (Bates 1941, p. 96 f.), and we are informed by Ibn Batutah that in the Middles Ages the people of Ayr rode without saddles (Ibn Batutah IV, p. 442).

231 The history of the horse in Africa constitutes a very important problem. It is generally admitted
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7:Nicolaisen E-5 (1951-1962) 1963 MS25 Tuareg MS25

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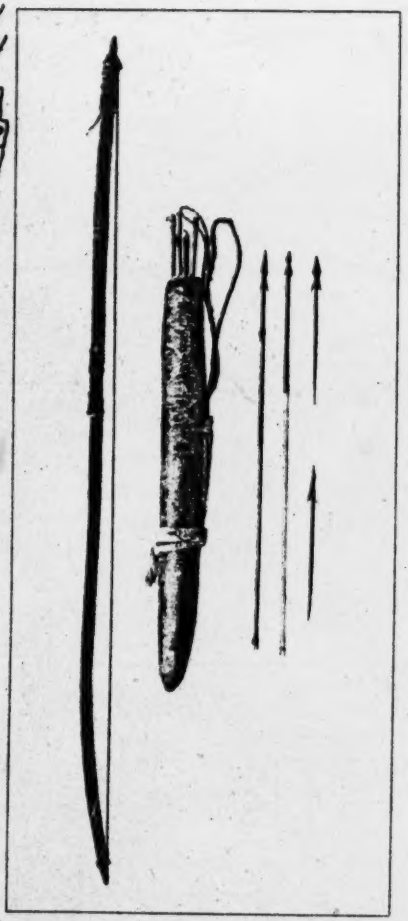

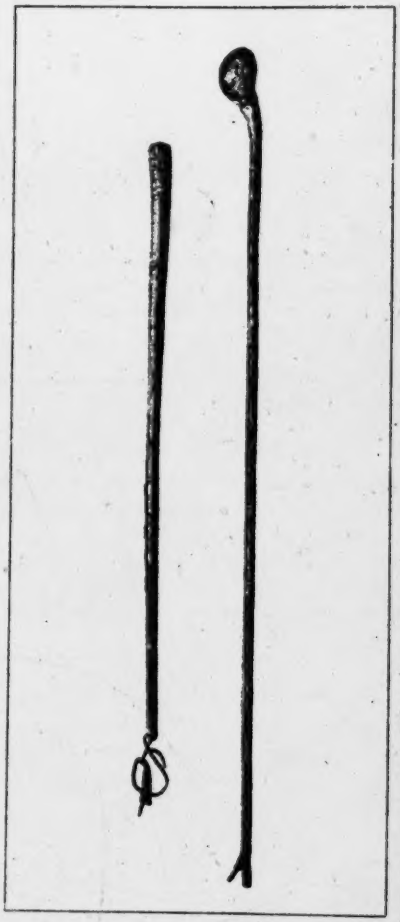

Fig. 119. Bow (*tagonzé*), arrows (*imeran*), and quiver (*ɗhaɗuren*) from the Hausa-speaking population living south of Ayr around Aderbissinat. The bow is made from wood of a tree called *ɗdinen* and has a string of ox-hide. The arrows have shafts of wood or reed; their iron points are made by blacksmiths. The quiver is made from ox-hide with a plaster of cow's excreta applied to the inner side. Dimension of the bow: 1.20 m. (N.M. G. 6621).

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Fig. 120. Tuareg clubs.

a. Wooden club (*aburi*). Dimension: 0.995 m long. (N.M. G. 1.139). Ahaggar, Olufsen's Collection.

b. Wooden club. Used for weapon and for cattle-driving by Tuareg around Timbuktu. Made from a bough of *Combretum aculeatum*. Collected by O. Hagerup. Dimension: 1.39 m long. (N.M. G. 3086). All slaves I saw among the *Iwllemmeden* near Ayoru carried this weapon.

7:Nicolaisen E-5 (1951-1962) 1963 · MS25 Tuareg MS25

466 obtain a larger amount of vegetable food products and more wheat and barley. The pastoral Tuareg
425 gain less from their gardens than they did when the *khamast* system prevailed, but it is still profitable
423 for them to be garden owners.
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The quantity of agricultural products anually consumed per person among the *Kel Ahaggar* is
511 estimated by Lhote at 187 kilos millet, 15 kilos dates, and a small amount of wheat for which no
262 figure is given. For Arabs of the Sahara the quantity of vegetable food is estimated at 180 kilos
[171] and 75 kilos dates anually per person (Lhote 1955a, p. 263). I add to this that wheat is used for bread to a very large extent by the Ahaggar Tuareg, who also make much use of barley for bread and porridge. According to Malaurie the amount of agricultural food products available per person among the Ahaggar Tuareg is about 400 grammes a day, or 146 kilos anually (Malaurie 1953, p. 342). It should be noted again that the amount of agricultural food products necessary for a Tuareg household varies greatly from one year to the other. In years of drought when agricultural products form so to speak the only source of food for the nomads, they estimate that a household consisting of husband, wife, and one child will consume about two kilos of cereals (dates) every day, or 730 kilos in a year. Consequently the amount of cereals and dates consumed anually per person may in dry years rise to about 245 kilos. This seems to correspond to the amount of food considered necessary for Arabs of
[171] Tidikelt and Tuwat, who live almost exclusively on cereals and dates. When employed as labourers by the French Administration these sedentary Arabs are given 16 kilos of wheat and 4 kilos of rice a month, or 240 kilos of agricultural products anually per person (Information obtained from the administration office of In Salah in 1954). The agricultural products obtained by a pastoral household from a single
511 garden will not meet the needs of the household and its slaves even in years of good grazing, and less
433 so in dry years when pastoralists subsist entirely on agricultural food products. I give an example: During the year 1954 55 which was extremely dry, a Tuareg who owned three gardens cultivated with an *aril* agreement could not feed his household and his slaves (comprising two men, two women, and three children from five to twelve years old) by means of his own garden products. The Ahaggar
[437] Tuareg depend on caravan trading for their provisions of agricultural food, and trading also helps them to create the capital of millet and dates which is invested in their gardens in Ahaggar grown on their behalf by agriculturists. I believe that most pastoral households of Ahaggar have gardens, but there are Tuareg who have none. This is true, for instance, of most Tuareg living in and around the Ahnet Massif. Tuareg of this region formerly had gardens irrigated by the *foggara* system at Abalessa, but to-day they acquire their vegetable food products mainly by caravan trading.

IRRIGATION AGRICULTURE IN AYR

563 The largest aggregation of sedentary people in Ayr is found in Agadez (4.737), which is inhabited al-
361 most exclusively by negroid peoples who speak Hausa though most of them also know the Tuareg
162 language (*tamachek*). This large sedentary population mainly lives on trade and on crafts of
197 various kinds. The inhabitants are known to the Tuareg as the *Imeggedezen*. They are said to be related
433 to the Sultan (or the *Amenukal*) of Agadez. There is a tradition which claims that the Sultan came
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7:Nicolaisen E-5 (1951-1962) 1963 MS25 Tuareg MS25

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Fig. 142. Tomatoes (*tomatem*; *Solanum lycopersicum* and a type of melon (*tazenut*; *Cucurbita* sp.) cut into slices and left upon a layer of straw for drying. A basket (*tésenit*) filled with ears of millet (*énéllé*) is seen in the front. Ahaggar, *Ahl Azzi* Arabs.

563 193 [361] from Constantinople, and the true *Imeggedezen*, it is said, came from the same region. They were kinsmen of the Sultan who came to see their relative Sultan as guests or visitors and therefore acquired the name "*Imeggedezen*". They founded the city of Agadez, though it is said that sedentary people of the *Itésen* group of Tuareg were already living at this place. The city of Agadez seems to have been founded in the 15th century shortly after the foundation of the Sultanry which was established 1405 A.D. (cf. p. 414 f.). I shall return to the problems connected with the establishment of Agadez in a later chapter, and shall here content myself by saying that Agadez was established as a trading post, which also became the seat of government of Ayr, and the town never seems to have been a true agricultural settlement. There are no gardens, and even drinking water is very scarce and fetched by the women from outside of the city at wells and in river beds. The *Imeggedezen* are mainly city dwellers though there is a small population of agricultural *Imeggedezen* that possesses gardens at Alarses, a few kilometres north-east of Agadez.

361 621 [312] [563]

197 563 361 162 In Barth's days the main language of the sedentary Agadez population was *Sonray* (Barth 1857, I, p. 504). This is still spoken by a few people within the city, and it constitutes the traditional language of the people inhabiting the oasis of Ingal (1.430) west of Agadez. These Sonray-speaking people of Ingal, known to the Tuareg as *Isawełen*, subsist mainly upon their palms which yield dates of an excellent quality, and they do not otherwise engage much in agricultural activity. In the winter season some of these people settle in Tegidda-n-tésemt towards the north to work in the salt pits. Trade and crafts are also important industries to the sedentary people of Ingal, which owns a market.

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361 342 162 162 141 433 [174] Throughout the Ayr Massif there are many agricultural villages in which the farmers live in straw-huts, and in houses built of stone and mud (cf. p. 327 ff., Figs. 246 ff.). Most people of these villages belong to the group of *Kel Ewey* Tuareg, but there are also some agriculturists who belong to other Tuareg groups, e.g., the *Itésen* (cf. p. 330, 412, 414, 417 f.). The *Kel Ewey* Tuareg originally came from the north as true fair-skinned Tuareg, but in Ayr they mixed with an ancient negroid and Hausa-speaking population that subsisted on agriculture.

7:Nicolaisen E-5 (1951-1962) 1963 MS25 Tuareg MS25

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Fig. 149. The market place of Agadez. In the front negroid Hausa men roasting small pieces of meat on a spit; in the background Tuareg camels offered for sale.

484 pack-camels to the salt pit of Amadror to mine salt in the hot season. They load the camels with salt
487 and bring them to the camp where further preparations for the journey are made. When the caravans
[317] have started southwards they stop in the Tamesna plains and rest there for at least one month to allow
[437] the pack-camels to feed on annual pasture, and, if necessary, to exchange the pack-camels with others kept by the Ahaggar Tuareg in Tamesna. Thereupon the caravan will continue towards the millet-
[22] growing towns and villages of the Sudan to bargain with the Hausa. The caravan returns to Ahaggar again at the end of March or at the beginning of April, so that the total duration of a south-bound caravan is up to six or seven months.

433 The Sudanese millet trade is of extreme value to the subsistence of the Ahaggar Tuareg. It is partic-
439 ularly important to their economy that they obtain millet for non-nomadic products transported by camels, which are mainly bred outside of Ahaggar. The millet trade is consequently not much influenced by Ahaggar's changeable climate. According to official statistics, the Ahaggar caravans in 1946 exported 375 tons salt, and imported 720 tons millet, while the cereals grown in Ahaggar amounted to 197 tons (cf. Malaurie 1953, p. 344). According to Galan vegetable food grown in the gardens of Ahaggar in 1950 (a bad year) amounted to 121 tons wheat, 5 tons millet and barley, and 4 tons of tomatoes – about 10 kg of wheat and 0.5 kg of millet, barley, and tomatoes per person (Galan 1951,
[465] p. 233). We see from this that the amount of cereals acquired in the Sudan far exceeds the amount grown in Ahaggar, and as we have mentioned, the millet trade is also important for the establishment of Tuareg agriculture in their own country where this cereal is used for payments to cultivators. It can also be added that the Sudanese caravan trade is more important to the Tuareg than appears from
[435] the figures above. For salt is much more valuable than millet, and for one load of salt the Tuareg receive from four to fifteen loads of millet – in 1946 the price was fifteen to one (cf. Malaurie 1953, p. 344). It is evident that the Tuareg could not take all this millet back to Ahaggar. Most of it is re-sold

7:Nicolaisen E-5 (1951-1962) 1963 MS25 Tuareg MS25

Fig. 203. Earthen incense jar (*elhakkhar*). Ahaggar, *Hurrein* at Abalessa. Dimension: 0.179 m high. (N.M. G. 5889).

512). Most pastoral Tuareg of Ayr get their pots from Agadez, but pots are also imported from the south where they are of superior quality. These pots are said to be manufactured by black-skinned *Igdalen* Tuareg (cf. p. 432) of the southlands, notably by people of the *Ikenewen* class which comprises professional pot-makers. These people are not found among the *Kel Ayr* but are common in camps of the *Kel Geres* where I have met them. They speak *tamachek* but also have their own language which is said to be related to *Songay*. The pots made by these southern people are painted and decorated (cf. Fig. 205) in contrast to those of Agadez which are plain and of very simple forms (Figs. 204a–b). So far as I am aware painted and decorated pottery is rarely manufactured in Ayr nowadays. But Rodd states that such pottery in the form of pitchers with a blue design is made near Agadez (Rodd 1926a, p. 160 f., pl. 22 p. 209), and when I investigated ruins of stone houses at Iferwan I found a great many sherds of finely-decorated painted pots which must have been used up to the end of the great Tuareg revolt in 1917 when these houses were destroyed by the French. Lhote has also mentioned the decline of pottery techniques in Ayr, and he states that, apart from little incense jars, no painted and decorated pots are manufactured at Agadez nowadays (Lhote 1950c, p. 511).

Certain metal receptacles were known to the Tuareg long before the European occupation, notably a cooking pot (*ârir*) made from copper, and the flat drinking bowl (*tamemast*) made from tinned copper or brass in Tripolitania, or in Tunisia. Metal receptacles are also manufactured by native blacksmiths in Tuareg country, e.g., the pail (*ârir*) to be used for liquid butter (Fig. 164).

The blacksmiths are excellent wood-workers and make most wooden domestic utensils used by pastoral Tuareg (Figs. 21b, 37, 38, 58, 60, 61, 62, 63a–b, 75, 150, 153–154, 166, 176, 177, 178, 191, 194, 195, 212a, 219a–b, 285). The main implements for wood working are axes and adzes (Figs. 206a–d).

7:Nicolaisen E-5 (1951-1962) 1963 MS25 Tuareg MS25

206a–d). The ordinary axe (*tadeft*) is used by all Tuareg who may also possess small adzes (*tat-tawt*), used mainly by women for the manufacturing of domestic implements such as spoons and milking bowls. These implements manufactured by Tuareg women are generally inferior in quality to those made by the blacksmiths, though certain noble women of the *Kel Rela* tribe make wooden milking bowls that are said to be superior to those of the blacksmiths. In Ayr, Tuareg women engage very little in wood-working, and the Ayr Tuareg are on the whole less skilled in crafts than are the Tuareg of Ahaggar.

Pastoral Tuareg are experts in rope making. Ropes made from various materials play an important part for the Tuareg for hobbling domestic animals, for fastening burdens transported on camels, as reins, for the erection of tents, and for a great many other purposes. Incidentally the Tuareg make substitutes for ropes in a very simple way. Thus if a man comes upon a camel which he wishes to take back to camp and has no rope or rein to lead it by he makes a lead from three or four pieces of palm leaf, or the like, attached to each other. It is stated by Maire that the Ahaggar Tuareg make simple

Fig. 204a–b. Earthen pots made by the sedentary *Imeggedezen* of Agadez.

a. A water jar with two spouts. It is known to the Ayr Tuareg and the Hausa-speaking *Imeggedezen* as *geigelesi*. It is used by the latter people but never by pastoral Tuareg. Dimension: 0.30 m high. (N.M. G. 6635).

b. Earthen jar used for water and also for cooking. It is known to the Ayr Tuareg as *tiyint* or *tiskin*, to the Hausa-speaking *Imeggedezen* as *tukunîya* or *tuhu*. Dimension: 0.225 m high. (N.M. G. 6634).

7:Nicolaisen E-5 (1951-1962) 1963 MS25 Tuareg MS25

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Fig. 205. Painted earthen pot (*tikawawt*) manufactured by the professional potmakers called *Ikawawen*. Ayr, Agadez. Dimension: 0.32 m high. (N.M. G. 6636).

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824 hobble ropes from straws of the *tulluli* grass (*Aristida pungens*) (Maire 1933, p. 62). For the manufacture of proper ropes the Tuareg may employ the bark of trees. Both in Ahaggar and in Ayr they use the bark of *Acacia Raddiana* (*abser* in Ahaggar, *afagag* in Ayr) for this purpose (Fig. 113). These ropes are made after much the same method as that used for the Ahaggar ropes of date palm bast (*asus*)
283
462 and those of dum palm leaves made in Ayr. Ropes of this kind are always made by men, who, when making ropes from date palm bast, proceed in the following way:— Pieces of bast are soaked in water contained in a receptacle. They are thereupon torn into small strips about 20–30 cms long. These strips are rolled and twisted between the hands, and are kept in this rolled position under the foot until sufficient numbers of strips are available for the rope to be made. The ends of two rolled strips are then placed between the first and the second toes, and the strips are twisted together between the hands. New strips are added and twisted in this fashion until a suitable length of two twisted rows of strips has been made. This length is thereupon stretched over one of the feet, doubled, and twisted between the hands. It is finally hammered with a stone while resting on another stone or upon the bottom of a large mortar which is frequently used for support. The Ahaggar Tuareg make their hobble ropes in this way (Fig. 207), and the Ayr Tuareg apply the same technique to ropes made from strips of dum palm leaves which are also soaked in water before twisting. Both in Ahaggar and in Ayr this method may also be used for the manufacture of leather cords (Figs. 43, 73a).

7:Nicolaisen E-5 (1951-1962) 1963 MS25 Tuareg MS25

may be seen in Fig. 167a–b illustrating baskets used for the manufacture of butter-milk cheese in Ahaggar. True coiled basketry is sewn with a little awl (*ilstent*) (Fig. 218a).

The technique of coiled basket work is used in the manufacture of a great many receptacles among the Tuareg of Ahaggar, and coiled basketry made and utilized by these Tuareg can be seen in Figs. 184, 185, 196a–c, 210a–b.

The Ayr Tuareg apparently do not make coiled basketry to a very great extent, but they know a technique related to that used in Ahaggar, and also sew with a small awl (*ésan*). The reason why so many Ayr pastoralists make very little coiled basketry work probably lies in the fact that plates, bowls, and other receptacles of this type can be obtained at the market of Agadez at very low prices.

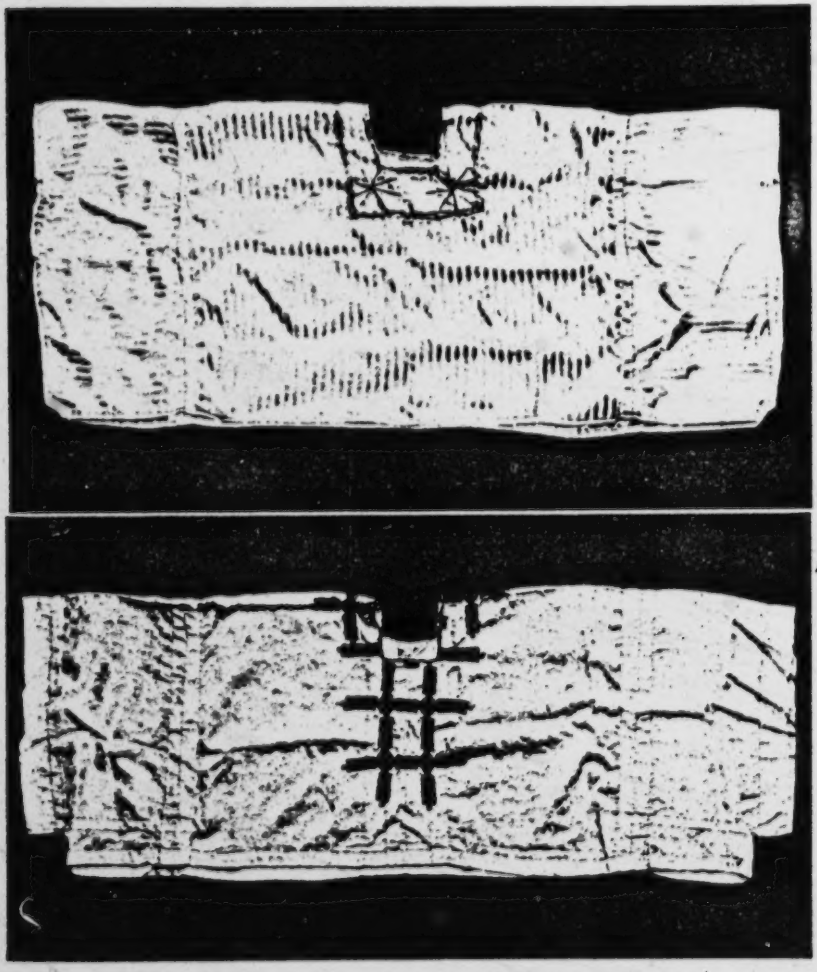
In the manufacture of plaited basketry the Ayr Tuareg are experts. They use the leaves of the dum palm for plaiting a great many different articles such as tent-mats, containers, and the like. When large mats and similar objects are made, the palm leaves are always plaited into narrow bands which are sewn together with pieces of leaves by means of a large needle (*tasubla*) (Fig. 220b). Plaiting dum palm leaves is one of the most important tasks of women among the *Kel Ayr*. Pastoral Tuareg of Ahaggar in contrast to those of Ayr do not engage much in plaiting basketry, and I believe that most of them are unaware of this technique which is known to all sedentary agriculturists of Ahaggar. The plaiting material used by these people is date palm leaves (*aḡum*) from which they make mats, bags, and similar objects. Baskets (*aleguiguten*) like that reproduced Fig. 211 are manufactured by sedentary agriculturists of Abalessa and are sometimes used by pastoral Tuareg. Another type of plaited basket is that illustrated Fig. 135. It is made from palm leaves and has two handles made from palm bast twisted into a rope which is sewn into the basket by means of the large needle (*tasugla*, or *tasubla*) (Fig 220b). This basket type (*tésenit*) is widely found throughout Northern Africa among sedentary people of the oases and in the Atlas. The sedentary agriculturists of Ahaggar use baskets of this kind for many different purposes, and they play a part in agricultural work, e.g., to carry fresh soil to the gardens (p. 191) and to remove soil when digging and cleaning out foggara canals.

The Tuareg have a third technique which can adequately be mentioned in connection with plaiting, namely the manufacturing of mats from the stems of the *afezu* grass (*Panicum turgidum*). These mats are made from straws placed parallel to each other and fixed together by means of strips of leather. These mats are known as *éseber* or *tésebert* according to their use and size. They play an important part in Ahaggar where they are used as a kind of windscreen surrounding all tents, and they are manufactured by many women among the *Kel Ahaggar* (Figs. 268, 269). Mats of this type are also made by some Ayr Tuareg for cheese manufacturing (Fig. 168), but Tuareg women of Ayr practise very little this particular technique of mat making. Large mats made from *afezu* stems are used for bed covers, and in rare cases also for windscreens or sunshades, but these mats, which are found in all Tuareg camps together with the large wooden bed (*téḍabut*) (Fig. 212a–b), are not manufactured in Ayr but in the south, particularly by women of the *Iḡdalen* Tuareg. Mats manufactured by this method are used for an interior cover of the barrel-vaulted mat-tent (Fig. 265d); these mats are also imported from the south.

The Tuareg are expert at skin and leather work which constitues the most important craft in the

7:Nicolaisen E-5 (1951-1962) 1963 MS25 Tuareg MS25

291



[531]

Fig. 239a–b. Two short woman's shirts from Ayr.
a. The shirt (*aſtak*) worn by pastoral women. Dimension: 1.27 m. (N.M. G. 6668).
b. Shirt of similar cut but embroidered with red thread. It is called *ligu* or *tagwa* and is worn by the Hausa-speaking women of Agadez. Dimension: 1.38 m. (N.M. G. 6669).

[563]

7:Nicolaisen E-5 (1951-1962) 1963 MS25 Tuareg MS25

ago when the *Ḥarratin* agriculturists immigrated from Tidikelt. Most people even aver that there were hardly any houses in Ahaggar until the arrival of the French at the beginning of the century. This is confirmed by Foucauld (1951–52, II, p. 609), and Bissuel was told by the Tuareg captives at Algiers that Ahalessa had no solid houses but only straw-huts (cf. Bissuel 1888, p. 53). It is true that Hornemann mentions a village comprising 25–30 houses built of stone and situated in the country of Hhagarâ (Hornemann 1803, I, p. 154 f.). But Hornemann travelled further east and never visited Ahaggar or Tasilé-n-Ajjer. His information may perhaps refer to a village in the latter region also inhabited by noble *Ihaggaren* Tuareg. Permanent settlements of Ahaggar are apparently never mentioned in the writings of Medieval Arab authors. We know that Ahaggar was visited by Ibn Batutah. He does not mention any settlements in this country, of which and its inhabitants "there is little good to say" (Ibn Batutah IV, p. 446).

A.4. *Subterranean or semi-subterranean dwellings.*

Subterranean or semi-subterranean dwellings seem to be unknown in Ayr and also in the regions inhabited by most other Southern Tuareg though found among sedentary people along the Niger Bend (cf. Hefel 1946, p. 190 ff.). They are known also in Ahaggar where they are used exclusively by black-skinned agriculturists who claim that this type of dwelling named *eddamus* was introduced into Ahaggar with the *Kel Ĝanet*. This agrees with the fact that these dwellings are particularly common in the region of Taṛhawhawt where many of the *Kel Ĝanet* live. However, subterranean dwellings nowadays are also used by certain other sedentary agriculturists of Ahaggar. The dwellings are not very deep, and frequently they are only semi-subterranean, the upper part then consisting of walls built of rectangular pieces of sundried mud or of stones kept together by mud. The subterranean or semi-subterranean dwelling normally has a rectangular site, and is not very spacious. Introduced by the *Kel Ĝanet*, this type of dwelling is comparatively recent in Ahaggar. I have not seen subterranean

Fig. 248. Semi-subterranean house with two rooms (*eddamus*). Ahaggar, I-n-gawan.

7:Nicolaisen E-5 (1951-1962) 1963 MS25 Tuareg MS25

642 565 there are no true vassals or *Imṛad* though some *Kel Ewey* tribes are referred to in literature as vassals.

174 642 565 [144] The lack of the important structural feature of vassalage among the *Kel Geres* may perhaps be explained in the following way:— The *Kel Geres* Tuareg lived originally in Ayr within much the same area as that now occupied by the *Kel Ewey*, and it is most likely that they had mixed very much with the sedentary Negroes as there are among the *Kel Geres* very many black-skinned and negroid Tuareg. It is very probable that the *Kel Geres* when living in Ayr led a semi-sedentary life, for it is said that they had very few domestic animals when they left Ayr in the 18th century owing to the pressure of the *Kel Ewey*. We may perhaps assume that this particular mode of livelihood was the reason why vassalage ceased to exist among the *Kel Geres*. When, in the 18th century, the *Kel Geres* were driven southwards into the Sudanese steppes and savannahs, they became ardent stock-breeders and adopted a political system much related to that of an ordinary Tuareg drum-group with the exception that they had no class-division.

614 642 643 Among the *Kel Geres*, all tribes of pastoral Tuareg are known as *Imajeṛen* but though they are not divided into classes these tribes are nevertheless not politically identical. The most important tribe is that called *Ti-temeḳḳeret*. It is named after Anu-Meḳḳeren in Central Ayr where this tribe originally lived, and the *Kel Geres* drum-chief (*ettebel*) is always elected from this particular group. But the drum-chief is not elected by all adult people of his drum-group, but by members of three tribes, the *Anyegeren*, *Ireyawen*, and *Kel Awnar*. The members of these tribes alone can elect and dismiss a drum-chief entirely at their discretion. When they have elected a new drum-chief he is ceremoniously installed by a man of the *Anyegeren* tribe who wraps the large head-cloth around the chief's head. In all this the *Kel Geres* resemble the *Kel Ewey* among whom the *Anestafidet* is elected by the members of three important tribes.

The three tribes of *Anyegeren*, *Ireyawen*, and *Kel Awnar* are also politically very important in other respects for they consistute the nuclei of three sub-divisions of the *Kel Geres*. The chiefs of the three tribes have the title *Aṛolla* (pl. *Iṛollan*) and they are also the chiefs of certain other pastoral tribes which have individual chiefs with the title of *Amṛar* (pl. *Imṛaren*). A certain number of people who [563] are non-Tuareg by origin are placed under the authority of all tribal chiefs, e.g., *Iṛawélen* who are slaves manumitted in the past, *Ikenawen* who are professional potmakers, *Ineden* or blacksmiths, and *Iséfnen*, that is sedentary Hausa living in villages.

614 642 645 In addition to the tribe of the drum-chief and the three *Iṛollan* tribes, there is among the Kel Geres a fifth tribe which is politically very important, namely that known as *Ezuṛmani*. It is a religious tribe of the so-called *Echchikhen* class, and its chief is known as *Echchikh* though he also bears the title of *Al-Ḳadi*. He acts as the adviser of the drum-chief in judicial and religious matters, and though he apparently possesses no direct authority over all *Kel Geres* he is very influential and greatly respected. The *Al-Ḳadi* or *Echchikh* is elected according to the traditional rules of succession acknowledged by the *Kel Geres*, a deceased chief being succeeded by his younger brother or by his son. But in contrast to all other chiefs, including the drum-chief, he cannot be dismissed when he is once elected. All religious tribes within the *Kel Geres* drum-group are placed directly under the authority of the *Al-Ḳadi* (*Echchikh*) of the *Ezuṛmani* tribe. But the *sadakat* fees are made to the drum-chief and not to the Al-Ḳadi.